

|   |  |  |
|---|--|--|
| <b>UTILITY PATENT APPLICATION TRANSMITTAL</b><br><i>(Only for new nonprovisional applications under 37 CFR § 1.53(b))</i> |  | <b>Attorney Docket No.</b> 1481.0170000  |
|   |  | <b>First Inventor or Application Identifier</b> Steven Beck  |
|   |  | <b>Title</b> System, Method, and Computer Program Product for Weather and Terrestrial Vegetation-Based Water Renovation and Management Forecasting |
|   |  | <b>Express Mail Label No.</b>  |

**APPLICATION ELEMENTS**  
*See MPEP chapter 600 concerning utility patent application contents.*
**ADDRESS TO:** Assistant Commissioner for Patents  
 Box Patent Application  
 Washington, DC 20231

1.  \* Fee Transmittal Form (*e.g., PTO/SB/17*)  
*(Submit an original, and a duplicate for fee processing)*
2.  Specification [Total Pages 110]  
*(preferred arrangement set forth below)*
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (*if filed*)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3.  Drawing(s) (35 U.S.C. 113) [Total Sheets 41]
4.  Oath or Declaration [Total Pages 4]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional with Box 17 completed*)  
*[Note Box 5 below]*
    - i.  **DELETION OF INVENTOR(S)**  
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).
5.  Incorporation By Reference (*useable if Box 4b is checked*)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6.  Microfiche Computer Program (*Appendix*)
7. Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all necessary*)
  - a.  Computer Readable Copy
  - b.  Paper Copy (identical to computer copy)
  - c.  Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

8.  Assignment Papers (cover sheet & document(s))
9.  37 CFR 3.73(b) Statement  Power of Attorney  
*(when there is an assignee)*
10.  English Translation Document (*if applicable*)
11.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS Citations
12.  Preliminary Amendment
13.  Two Return Receipt Postcard (MPEP 503)  
*(Should be specifically itemized)*
14.  \*Small Entity Statement(s)  Statement filed in prior application, Status still proper and desired  
*(PTO/SB/09-12)*
15.  Certified Copy of Priority Document(s)  
*(if foreign priority is claimed)*
16.  Other: 37 C.F.R. § 1.136(a)(3) Authorization  
 Other:

\*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

**17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:**
 Continuation     Divisional     Continuation-in-Part (CIP) of prior application No: \_\_\_\_\_ / \_\_\_\_\_

*Prior application information:* Examiner \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

|  |   |   |                |   |                |
|--|---|---|----------------|---|----------------|
| <input type="checkbox"/> Customer Number or Bar Code Label | (Insert Customer No. or Attach bar code label here) |   |                | or <input checked="" type="checkbox"/> Correspondence address below |                |
| NAME   |   | STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.<br>Attorneys at Law |                |   |                |
| ADDRESS  |   | Suite 600, 1100 New York Avenue, N.W.                         |                |   |                |
| CITY   | Washington  | STATE   | DC             | ZIP CODE  | 20005-3934     |
| COUNTRY  | USA   | TELEPHONE   | (202) 371-2600 | FAX   | (202) 371-2540 |

|                   |                |                                   |        |
|-------------------|----------------|-----------------------------------|--------|
| NAME (Print/Type) | Michael C. Lee | Registration No. (Attorney/Agent) | 35,239 |
| SIGNATURE         |                |                                   |        |

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.**

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W., SUITE 600  
WASHINGTON, D.C. 20005-3934

(202) 371-2600

FACSIMILE: (202) 371-2540; (202) 371-6566

JC639  
04/12/00

ROBERT GREENE STERNE  
EDWARD J. KESSLER  
GEORGE A. GOLDSTEIN  
SAMUEL L. FOX  
DAVID K.S. CORNWELL  
ROBERT W. EDMOND  
TRACY-GENE G. DURKIN  
MICHELE A. CIMBALA  
MICHAEL B. RAY  
ROBERT E. SOKOHL  
ERIC K. STEFFE  
MICHAEL O. LEE

STEVEN R. LUDWIG  
JOHN M. COVERT\*  
LINDA E. ALCORN  
RAZ E. FLESHNER  
ROBERT C. MILLONIG  
MICHAEL V. MESSINGER  
JUDITH U. KIM  
TIMOTHY J. SHEA, JR.  
DONALD R. MCPHAIL  
PATRICK E. GARRETT  
STEPHEN G. WHITESIDE  
JEFFREY T. HELVEY\*

HEIDI L. KRAUS  
JEFFREY R. KURIN  
RAYMOND MILLIEN  
PATRICK D. O'BRIEN  
LAWRENCE B. BUGAISKY  
CRYSTAL D. SAYLES\*  
EDWARD W. YEE  
ALBERT L. FERRO\*  
DONALD R. BANOWIT  
PETER A. JACKMAN  
MOLLY A. McCALL

TERESA U. MEDLER  
JEFFREY S. WEAVER  
KRISTIN K. VIDOVICH  
KENDRICK P. PATTERSON  
DONALD J. FEATHERSTONE  
GRANT E. REED  
VINCENT L. CAPUANO  
JOHN A. HARROUN\*  
MATTHEW M. CATLETT\*  
NATHAN K. KELLEY\*  
ALBERT J. FASULO II \*

KAREN R. MARKOWICZ\*\*  
SUZANNE E. ZISKA\*\*  
BRIAN J. DEL BUONO\*\*  
ANDREA J. KAMAGE\*\*  
NANCY J. LEITH\*\*  
TARJA H. NAUKKARINEN\*\*

\*BAR OTHER THAN D.C.  
\*\*REGISTERED PATENT AGENTS

April 12, 2000

**WRITER'S DIRECT NUMBER:**

(202) 371-2674

**INTERNET ADDRESS:**

MLEE@SKGF.COM

Commissioner for Patents  
Washington, D.C. 20231

**Box Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No. (to be assigned); Filed: (herewith) April 12, 2000  
For: **System, Method, and Computer Program Product for Weather and  
Terrestrial Vegetation-Based Water Renovation and Management  
Forecasting**

Inventors: Beck *et al.*  
Our Ref: 1481.0170000

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. PTO Fee Transmittal Form PTO/SB/17 (*in duplicate*);
2. PTO Utility Patent Application Transmittal Form (PTO/SB/05);
3. Statement Claiming Small Entity Status (37 C.F.R §§ 1.9(d) and 1.27 (c)) -  
Small Business Concern;
4. U.S. Utility Patent Application entitled:

**System, Method, and Computer Program Product for Weather and  
Terrestrial Vegetation-Based Water Renovation and Management  
Forecasting**

and naming as inventors:

Assistant Commissioner for Patents  
April 12, 2000  
Page 2

Steven Beck  
Sam D. Campbell  
Frank deNoyelles  
Stephen L. Egbert  
Frederic D. Fox  
David Penny  
Stephen J. Randtke

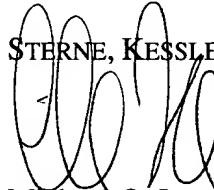
the application consisting of:

- a. A specification containing a total of 110 pages:
  - i. 102 pages of description prior to the claims;
  - ii. 7 pages of claims (28 claims);
  - iii. a one (1) page abstract;
- b. 41 sheet(s) of drawings: (Figures 1-5, 6A -6C, 7A-7B, 8A-8B, 9-35 and 36A-36I); and
- c. An original executed Combined Declaration and Power of Attorney for Patent Application;
5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
6. Recordation Form Cover Sheet;
7. An original executed Assignment to Strategic Weather Services, Inc., recordation of which is hereby respectfully requested;
8. Two (2) return postcards; and
9. Our check No. 27222 for \$ 496.00 to cover:  
    \$345.00 Filing fee for patent application;  
    \$ 40.00 Assignment recordation fee(s); and  
    \$111.00 Fee for excess claims.

Assistant Commissioner for Patents  
April 12, 2000  
Page 3

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

  
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee  
Attorney for Applicants  
Registration No. 35,239

MQL/MAM/tp  
Enclosures

P:\USERS\TPALMER\mam\1481\017000.co1  
SKGF Rev. 4/5/00 mac

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

JC760 U.S.

# FEE TRANSMITTAL

for FY 2000

Patent fees are subject to annual revision.

**Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.**

**TOTAL AMOUNT OF PAYMENT****(\$496.00)****Complete if Known**

|                        |                           |
|------------------------|---------------------------|
| Application Number     | (to be assigned)          |
| Filing Date            | (herewith) April 12, 2000 |
| First Named Inventor   | Steven Beck               |
| Examiner Name          | (to be assigned)          |
| Group / Art Unit       | (to be assigned)          |
| Attorney Docket Number | 1481.0170000              |

**METHOD OF PAYMENT (check one)**

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

|                        |   |
|------------------------|---|
| Deposit Account Number | 19-0036                                   |
| Deposit Account Name   | Sterne, Kessler, Goldstein & Fox P.L.L.C. |

Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17

2.  Payment Enclosed:  Check  Money Order  Other\*  
\*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

**FEE CALCULATION****1. BASIC FILING FEE**

| Large Fee Code           | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid |
|--------------------------|-----------------|----------------|-----------------|------------------------|----------|
| 101                      | 690             | 201            | 345             | Utility filing fee     | 345.00   |
| 106                      | 310             | 206            | 155             | Design filing fee      |          |
| 107                      | 480             | 207            | 240             | Plant filing fee       |          |
| 108                      | 690             | 208            | 334             | Reissue filing fee     |          |
| 114                      | 150             | 214            | 75              | Provisional filing fee |          |
| <b>SUBTOTAL (1) (\$)</b> |                 | <b>345.00</b>  |                 |                        |          |

**2. EXTRA CLAIM FEES**

| Total Claims  | -       | Extra 20** | Fee from below | Fee Paid |
|---------------|---------|------------|----------------|----------|
| 28            | -       | 8          | X 9.00         | = 72.00  |
| Indep. Claims | 4 - 3** | 1          | X 39.00        | = 39.00  |

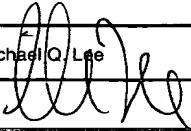
Multiple Dependent

| Large Fee Code           | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   |
|--------------------------|-----------------|----------------|-----------------|---|
| 103                      | 18              | 203            | 9               | Claims in excess of 20                                    |
| 102                      | 78              | 202            | 39              | Independent claims in excess of 3                         |
| 104                      | 260             | 204            | 130             | Multiple dependent claim                                  |
| 108                      | 78              | 209            | 39              | **Reissue independent claims over original patent         |
| 110                      | 18              | 210            | 9               | **Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2) (\$)</b> |                 | <b>111.00</b>  |                 |   |

**3. ADDITIONAL FEES**

| Large Fee Code                    | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid     |
|-----------------------------------|-----------------|----------------|-----------------|--|--------------|
| 105                               | 130             | 205            | 65              | Surcharge - late filing fee or oath  |              |
| 127                               | 50              | 227            | 25              | Surcharge - late provisional filing fee or cover sheet                     |              |
| 139                               | 130             | 139            | 130             | Non-English specification  |              |
| 147                               | 2,520           | 147            | 2,520           | For filing a request for reexamination                                     |              |
| 112                               | 920*            | 112            | 920*            | Requesting publication of SIR prior to Examiner action                     |              |
| 113                               | 1,840*          | 113            | 1,840*          | Requesting publication of SIR after Examiner action                        |              |
| 115                               | 110             | 215            | 55              | Extension for reply within first month                                     |              |
| 116                               | 380             | 216            | 190             | Extension for reply within second month                                    |              |
| 117                               | 870             | 217            | 435             | Extension for reply within third month                                     |              |
| 118                               | 1,360           | 218            | 680             | Extension for reply within fourth month                                    |              |
| 128                               | 1,850           | 228            | 925             | Extension for reply within fifth month                                     |              |
| 119                               | 300             | 219            | 150             | Notice of Appeal   |              |
| 120                               | 300             | 220            | 150             | Filing a brief in support of an appeal                                     |              |
| 121                               | 260             | 221            | 130             | Request for oral hearing   |              |
| 138                               | 1,510           | 138            | 1,510           | Petition to institute a public use proceeding                              |              |
| 140                               | 110             | 240            | 55              | Petition to revive - unavoidable   |              |
| 141                               | 1,210           | 241            | 605             | Petition to revive - unintentional   |              |
| 142                               | 1,210           | 242            | 605             | Utility issue fee (or reissue)   |              |
| 143                               | 430             | 243            | 215             | Design issue fee   |              |
| 144                               | 580             | 244            | 290             | Plant issue fee  |              |
| 122                               | 130             | 122            | 130             | Petitions to the Commissioner  |              |
| 123                               | 50              | 123            | 50              | Petitions related to provisional applications                              |              |
| 126                               | 240             | 126            | 240             | Submission of Information Disclosure Stmt                                  |              |
| 581                               | 40              | 581            | 40              | Recording each patent assignment per property (times number of properties) | 40.00        |
| 146                               | 760             | 246            | 380             | Filing a submission after final rejection (37 CFR 1.129(a))                |              |
| 149                               | 760             | 249            | 380             | For each additional invention to be examined (37 CFR 1.129(b))             |              |
| Other fee (specify):              |                 |                |                 |  |              |
| Other fee (specify):              |                 |                |                 |  |              |
| *Reduced by Basic Filing Fee Paid |                 |                |                 |  |              |
| <b>SUBTOTAL (3) (\$)</b>          |                 |                |                 |  | <b>40.00</b> |

**SUBMITTED BY**

|                       |   |  |
|-----------------------|---|--|
| Typed or Printed Name | Michael Q. Lee  | Complete (if applicable)   |
| Signature             |  | Date <u>4/12/2000</u> Reg. Number <u>35,239</u><br>Deposit Acct. User ID <u></u> |

**WARNING:**

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Beck *et al.*

Appl. No. (to be assigned)

Filed: (herewith) April 12, 2000

For: **System, Method, and Computer  
Program Product for Weather and  
Terrestrial Vegetation-Based  
Water Renovation and  
Management Forecasting**

Art Unit: (to be assigned)

Examiner: (to be assigned)

Atty. Docket: 1481.0170000

JC675 U.S. PTO  
09/547791  
04/12/00



**Authorization To Treat A Reply As Incorporating An Extension Of Time  
Under 37 C.F.R. § 1.136(a)(3)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee  
Attorney for Applicants  
Registration No. 35,239

Date: \_\_\_\_\_

1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
(202) 371-2600